RESPONSE UNDER 37 CFR § 1.116 – EXPEDITED PROCEDURE
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Title: SYSTEMS, FUNCTIONAL DATA, AND METHODS TO PACK N-DIMENSIONAL DATA

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In the Claims

The claims, which have not been amended herein, are as follows:

1.   (Previously Presented)   A navigational device, comprising:

a processor;

a memory in communication with the processor;

a display in communication with the processor;

wherein the device uses the memory in cooperation with the processor to compress a plurality of coordinate data into reduced sizes and associate at least a portion of activation data with each coordinate data, each coordinate data having three or more dimensions; and

wherein at least a portion of the coordinate data is dynamically communicated to the display.

2.   (Original)   The device of claim 1, further comprising an interface device operable to audibly communicate at least a portion of the coordinate data.

3.   (Previously Presented)   The device of claim 1, wherein each dimension includes a delta size associated with an optimal size to compress each coordinate data.

4.   (Previously Presented)   The device of claim 3, wherein at least one of the coordinate data exceed the delta size associated with compressing the at least one coordinate data and wherein associating one or more special data ensures the at least one coordinate data are compressed-within the delta size associated with the coordinate data.

5.   (Previously Presented)   The device of claim 4, wherein:

each dimension is associated with a direction; and

if each direction within each dimension of each associated coordinate data proceeds in a same direction then using a single sign data for each dimension to compress each coordinate data.

6.   (Original)   The device of claim 1, wherein at least one of the dimensions is associated with attribute data relating to at least one of the other dimensions.

7.   (Original)   The device of claim 1, wherein the device is a handheld portable device.

8.   (Original)   The device of claim 1, wherein the memory is remote from the processor.

9.   (Previously Presented)   A navigation system, comprising:
      a mass storage device adapted to store navigation data;
      a server adapted to communicate with the mass storage; and
      a navigation device adapted to communicate with and retrieve navigation data from the server via a communication channel, wherein the navigation device includes a processor in communication with a memory, wherein the processor and memory cooperate to compress at least three dimensional data into reduced sizes, and wherein the at least three dimensional data is associated with the navigation data and activation.

10.   (Original)   The system of claim 9, wherein the communication channel includes a wireless channel.

11.   (Original)   The system of claim 9, wherein the activation data are configurable to activate or deactivate each dimension within the at least three dimensional data of the navigation data.

12.   (Previously Presented)   The system of claim 11, wherein the navigation data are compressed within the memory.

13-24. (Canceled).

25.   (Previously Presented)   A navigational device, comprising:

a memory;

a display;

a processor that cooperates with the memory to compress navigation data having three or more dimensions wherein the navigation data includes control data and coordinate data; and

a Global Positioning Satellite (GPS) receiver that cooperates with the processor and provides to the processor specific values for coordinate data, wherein the processor matches the values with portions of the compressed navigation data using the control data and dynamically decompresses those matched portions into larger and original sizes and communicates the decompressed matched portions to the display.

26.   (Previously Presented)   The navigational device of claim 25, wherein the navigation device is a portable digital assistant.

27.   (Previously Presented)   The navigation device of claim 25, wherein the navigation data includes attribute data within one or more of the three or more dimensions, and wherein the attribute data drives presentation effects of the decompressed matched portions on the display.

28.   (Previously Presented)   The navigation device of claim 25, wherein the navigational device transmits the decompressed matched portions to an external device.

29.   (Previously Presented)   The navigational device of claim 25, wherein each of the three or more dimensions include cartographic data.

30.   (Previously Presented)   The navigational device of claim 25, wherein the decompressed match portions represent in least in part a current position of the device within a route that the device is traveling along.

31.   (Previously Presented)   The navigational device of claim 25 further comprising an audio device in cooperation with the processor, wherein the audio device communicates at least a part of the decompressed matched portions audibly.

32.   (Previously Presented)   The navigational device of claim 25 wherein at least one of the three or more dimensions associated with the decompressed matched portions includes landmark data proximate to the navigational device.